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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,457		08/26/2003	Kenneth Hooker	H0004404	5092
128	7590	09/27/2005	EXAMINER		
HONEY	WELL I	NTERNATIONA	KRISHNAMURTHY, RAMESH		
101 COLU	JMBIA I	ROAD		DARED AND OPEN	
P O BOX	2245		ART UNIT	PAPER NUMBER	
MORRISTOWN, NJ 07962-2245				3753	·
				DATE MAILED: 09/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
	10/648,457	HOOKER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ramesh Krishnamurthy	3753				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloward	Responsive to communication(s) filed on <u>08 September 2005</u> . This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

This office action is responsive to communications filed 09/08/2005.

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

09/08/05 including the amendment filed 08/22/05 has been entered.

Claims 1 – 11 are pending.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

4. Claims 1 – 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson (US 2,912,007) in view of Ray (US 2,850,685).

Figures 1 – 4 of Johnson discloses a solenoid control valve having a housing with a minor channel (channel connecting ports 108,110), a supply inlet (108), a major channel (106) and a vent (195, also see col. 7, lines 57 – 59). The side of control element (20) exposed to inlet fluid pressure via (108, 110) in Fig. 2 is read as a minor surface and the right side surface of element (20) exposed to pressure in chamber (74) is read as the major surface. Actuator chamber is (22) wherein the poppet (part of (20) connected to piston (72)) is disposed. Pilot valve (98) of Fig. 3 of Johnson is read as the "pilot ball valve". Pin (156) of Fig. 3 of Johnson is read as an arm, with the spring (178) of Fig. 2 being read as a biasing means. Appropriate inner surface of liner elements (23, 26, 28, 30 and 32) define the vent and fill contacts with respective seats defined on the poppet (as defined above). A control port (45, 46) and an outlet port (140) are provided in fluid communication with the actuator chamber.

The claims 1 - 11 are considered met by Figs. 1 - 4 of Johnson except for a dual coil solenoid. Ray shows a dual coil solenoid actuating a valve. It would have been obvious to substitute the dual coil solenoid of Ray for the solenoid in Figs. 1 - 4 of Johnson, for the purpose of providing a mechanical advantage in the lever of the pilot valve of Johnson, as evident from Ray.

Response to Arguments

5. Applicant's arguments filed 08/22/2005 have been fully considered but they are not persuasive. Applicant's argument that some of the features of claim 1 (as listed on

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pages 5 and 6 of the 'REMARKS') have been noted and in response a more detailed correspondence between the Johnson reference and the claimed elements has been provided.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramesh Krishnamurthy whose telephone number is (571) 272 – 4914. The examiner can normally be reached on Monday - Friday from 10:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Nicolas, can be reached on (571) 272 – 4931. The fax phone number for the organization where this application or proceeding is assigned is (571) 273 – 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramesh Krishnamurthy, Ph.D., PE

Primary Examiner

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